In the Claims:

- 1. (Currently amended) An electrochemical cell, comprising an SOFC cell, including an Ni/YSZ electrode to which Mn has been added, wherein a portion of the electrode extending less than 20 um from the electrolyte comprises 0.5 to 5 6 metal atom% Mn, and wherein remaining portions of the electrode comprise substantially less than 6 metal atom% Mn.
- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Previously added) The electrochemical cell of claim 1, wherein the portion of the electrode comprises 1 to 4 metal atom % Mn.
- 5. (Previously added) The electrochemical cell of claim 4, wherein the portion of the electrode comprises 2 to 3 metal atom % Mn.
- 6. (Cancelled)
- 7. (Currently amended) The electrochemical cell of claim 6 claim 1, wherein the portion of the electrode comprises 4 to 5 metal atom % Mn.
- 8. (New) An electrochemical cell comprising an electrolyte and an Ni/YSZ electrode, the electrode comprising a first layer overlying the electrolyte and at least one additional layer overlying the first layer, wherein the first layer comprises 0.5 to 6 metal atom% Mn, and wherein the at least one additional layer comprises substantially less than 6 metal atom% Mn.

- 9. (New) The electrochemical cell of claim 8, wherein the first layer comprises 1 to 4 metal atom % Mn.
- 10. (New) The electrochemical cell of claim 8, wherein the first layer comprises 2 to 3 metal atom % Mn.
- 11. (New) A solid oxide fuel cell comprising an electrolyte and an Ni/YSZ electrode, wherein the electrode comprises an active layer having a thickness of no more than 20 um, and wherein the active layer comprises 0.5 to 6 metal atom% Mn.
- 12. (New) The fuel cell of claim 11, wherein the active layer comprises 1 to 4 metal atom % Mn.
- 13. (New) The fuel cell of claim 11, wherein the active layer comprises 2 to 3 metal atom % Mn.
- 14. (New) The fuel cell of claim 11 further comprising additional electrode layers overlying the active layer.
- 15. (New) The fuel cell of claim 14, wherein the additional layers comprise electrode materials having substantially less than 6 metal atom% Mn.